

FIG. 1

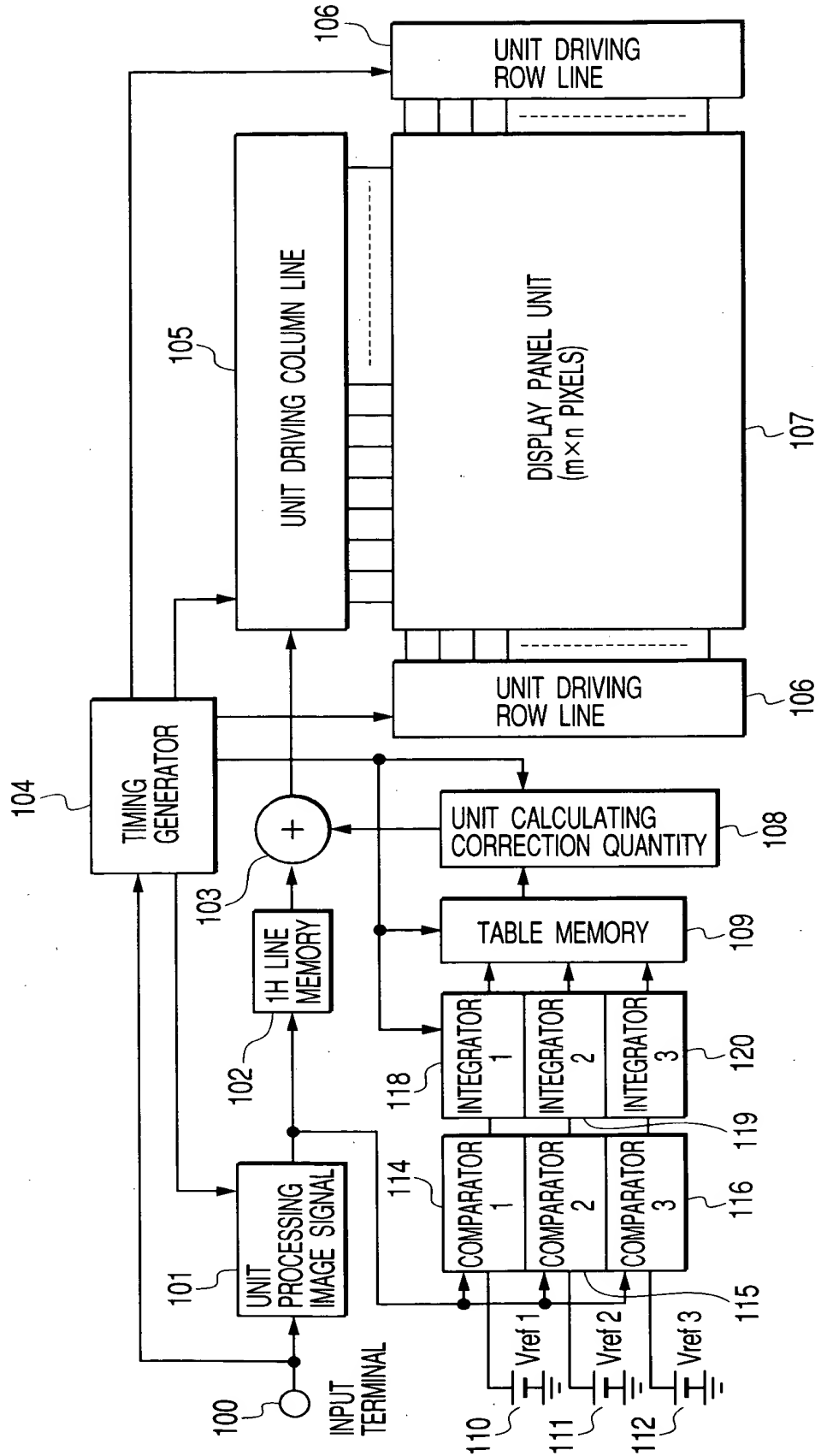


FIG. 2

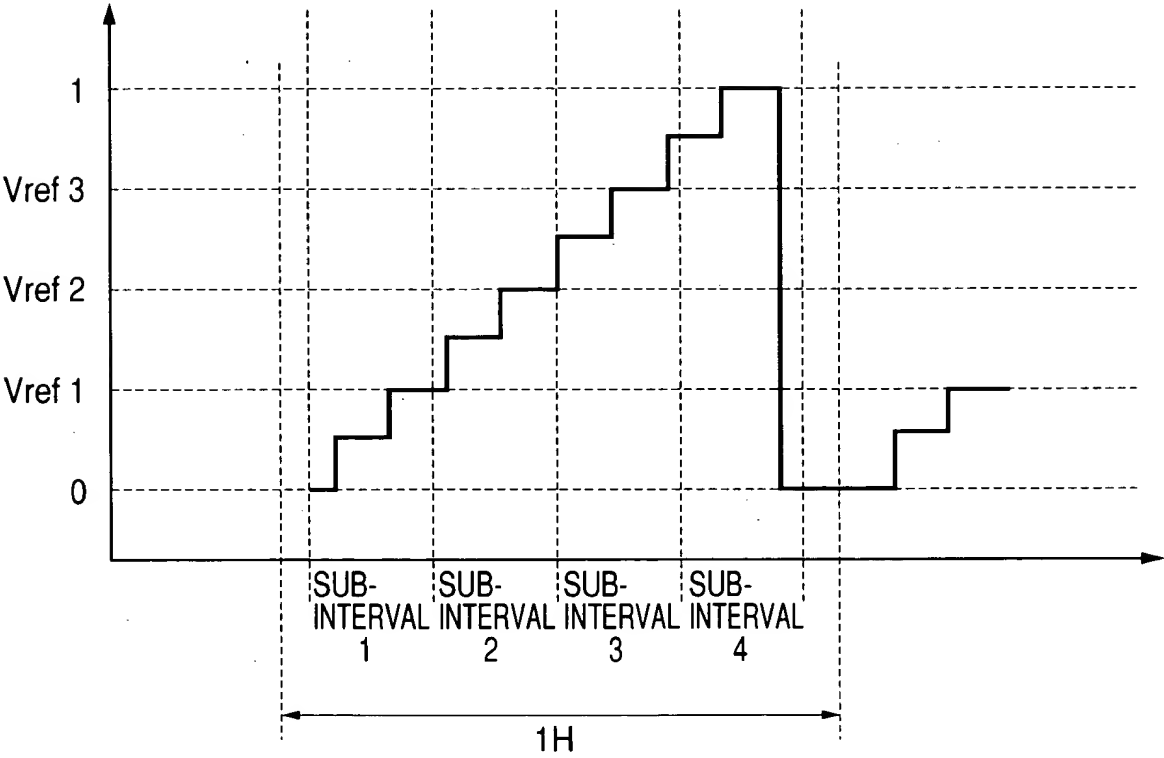


FIG. 3

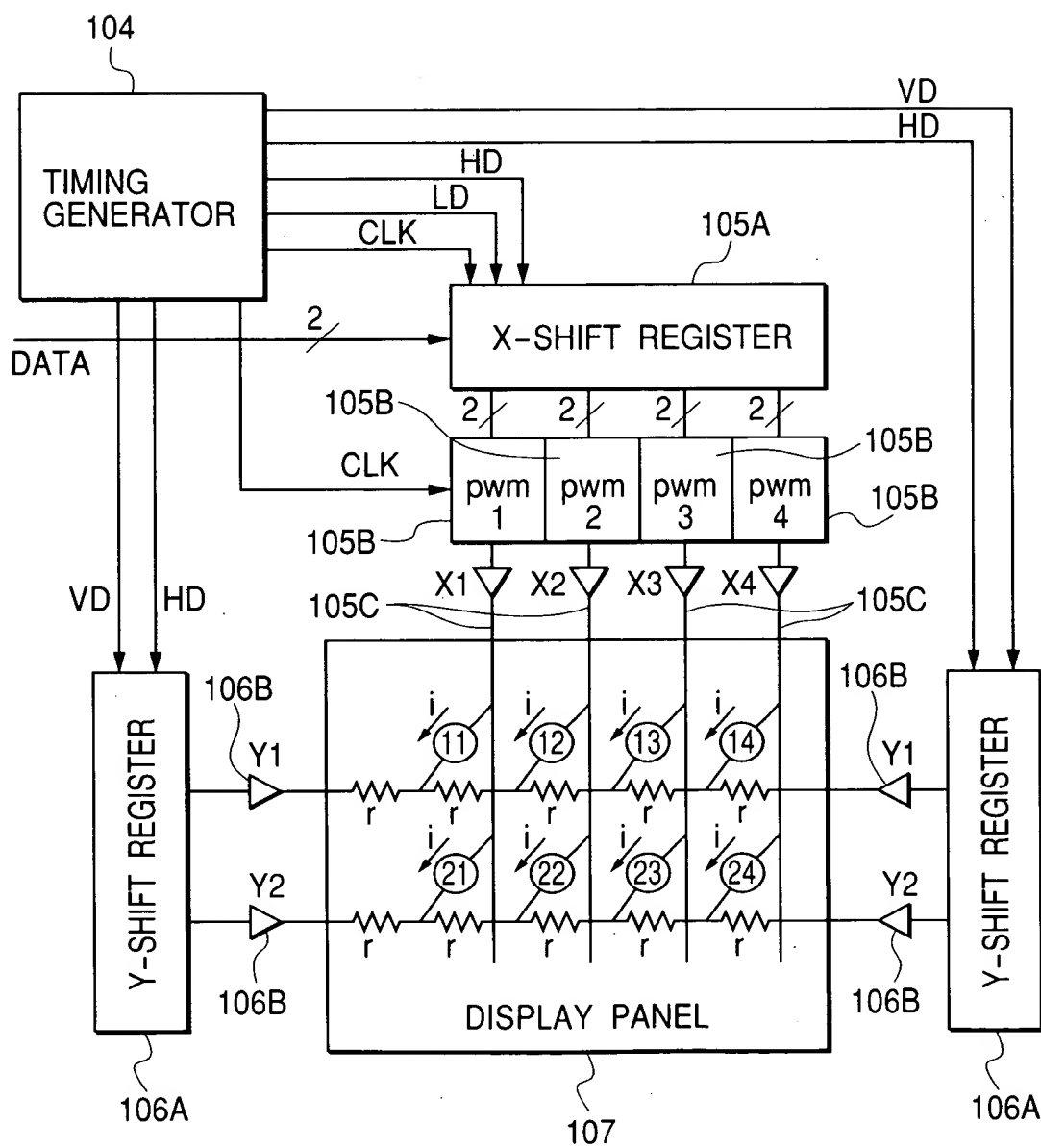
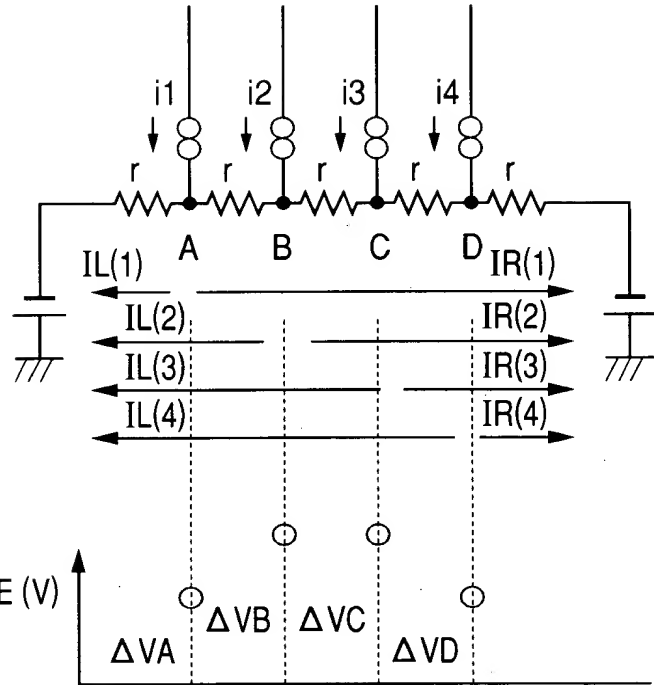


FIG. 4



$$\begin{aligned}
 IL(1) &= (r * 4/5) * i_1 & IR(1) &= (r * 1/5) * i_1 \\
 IL(2) &= (r * 3/5) * i_2 & IR(2) &= (r * 2/5) * i_2 \\
 IL(3) &= (r * 2/5) * i_3 & IR(3) &= (r * 3/5) * i_3 \\
 IL(4) &= (r * 1/5) * i_4 & IR(4) &= (r * 4/5) * i_4
 \end{aligned}$$

$$\Delta VA = r * \sum_{k=1}^4 (IL(k))$$

$$\Delta VB = \Delta VA + r * \left(\sum_{k=2}^4 (IL(k)) - \sum_{k=1}^1 (IR(k)) \right)$$

$$\Delta VC = \Delta VB + r * \left(\sum_{k=3}^4 (IL(k)) - \sum_{k=1}^2 (IR(k)) \right)$$

$$\Delta VD = \Delta VC + r * \left(\sum_{k=4}^4 (IL(k)) - \sum_{k=1}^3 (IR(k)) \right)$$

FIG. 5

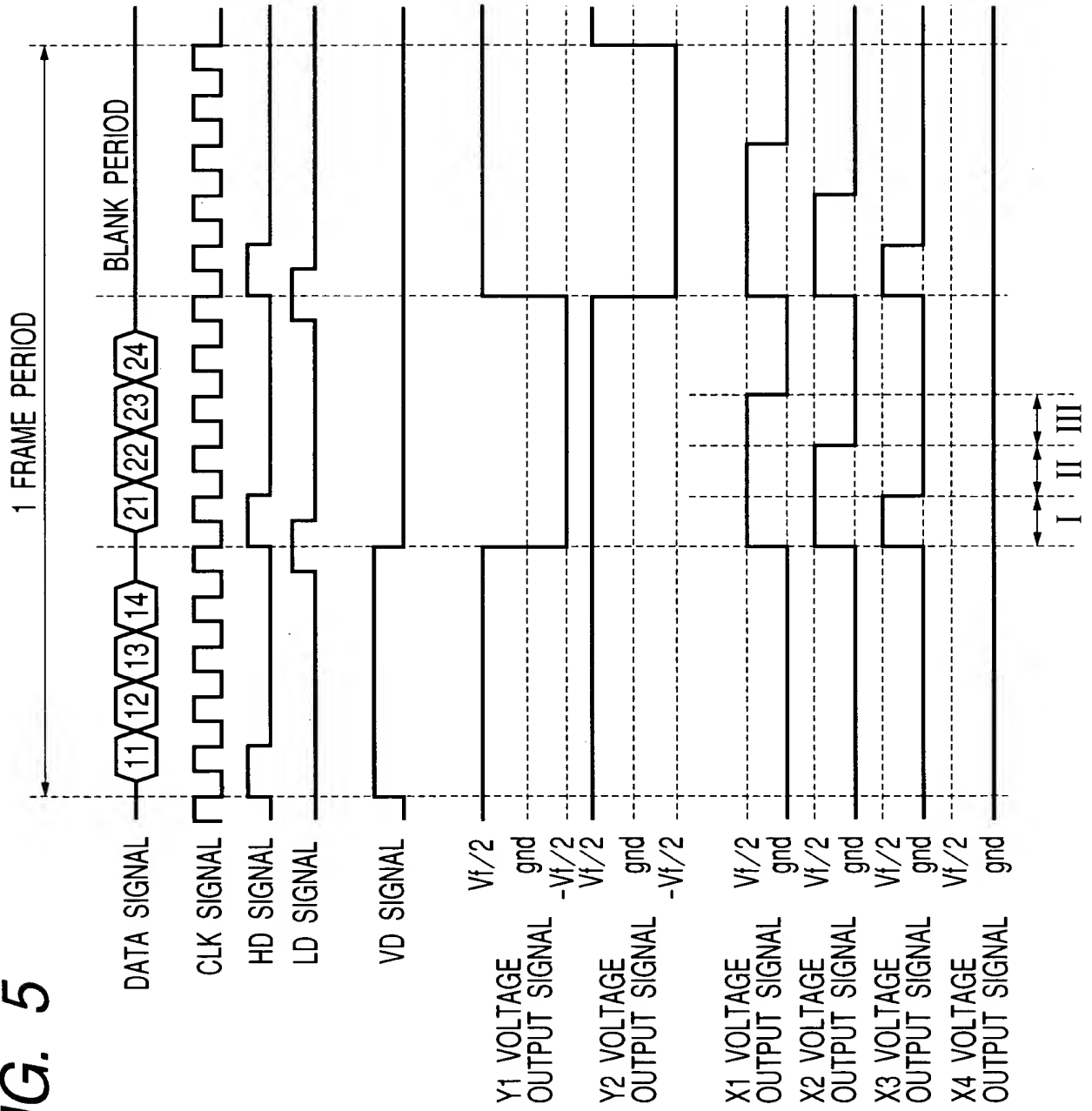


FIG. 6

(1)

	PERIOD I	PERIOD II	PERIOD III
X1 VOLTAGE OUTPUT	ON	ON	ON
X2 VOLTAGE OUTPUT	ON	ON	OFF
X3 VOLTAGE OUTPUT	ON	OFF	OFF
X4 VOLTAGE OUTPUT	OFF	OFF	OFF

(2)

	PERIOD I	PERIOD II	PERIOD III	TOTAL OF ONE HORIZONTAL SCANNING INTERVAL
VOLTAGE DROP AT POINT A	$\Delta VA(I)$	$\Delta VA(II)$	$\Delta VA(III)$	$(\Delta VA(I) + (\Delta VA(II) + (\Delta VA(III)))/3$
VOLTAGE DROP AT POINT B	$\Delta VB(I)$	$\Delta VB(II)$	$\Delta VB(III)$	$(\Delta VB(I) + (\Delta VB(II) + (\Delta VB(III)))/3$
VOLTAGE DROP AT POINT C	$\Delta VC(I)$	$\Delta VC(II)$	$\Delta VC(III)$	$(\Delta VC(I) + (\Delta VC(II) + (\Delta VC(III)))/3$
VOLTAGE DROP AT POINT D	$\Delta VD(I)$	$\Delta VD(II)$	$\Delta VD(III)$	$(\Delta VD(I) + (\Delta VD(II) + (\Delta VD(III)))/3$

FIG. 7

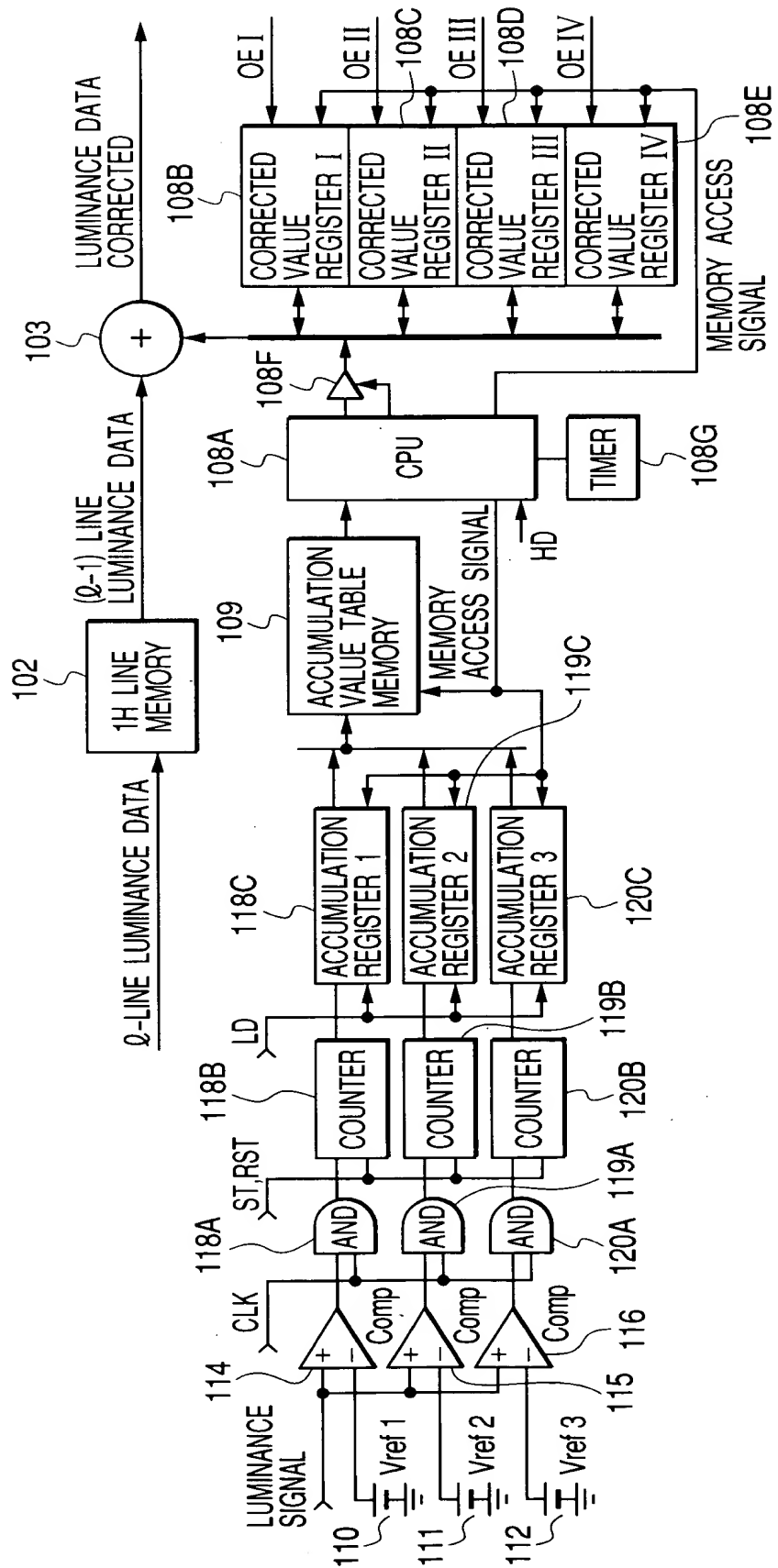


FIG. 8

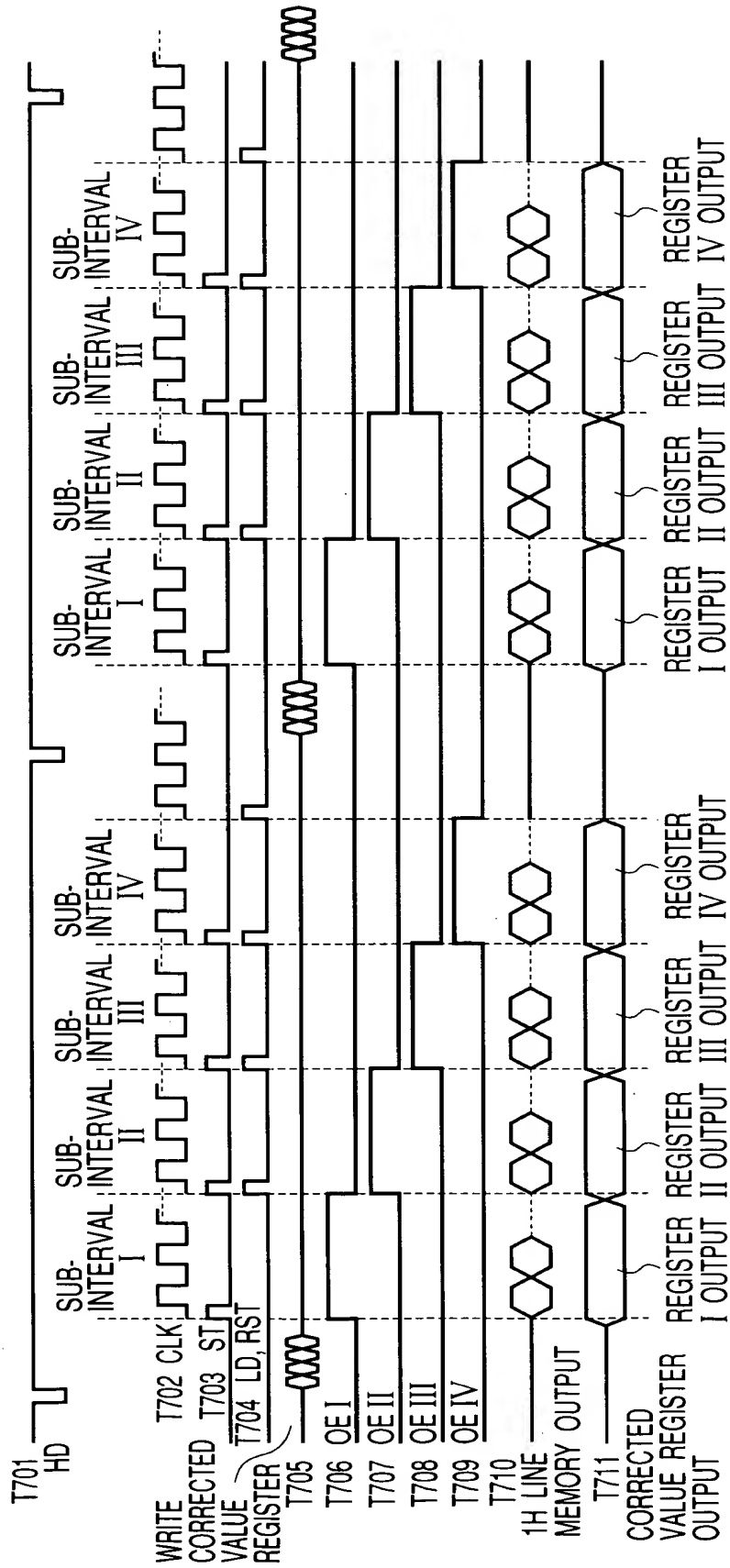


FIG. 9

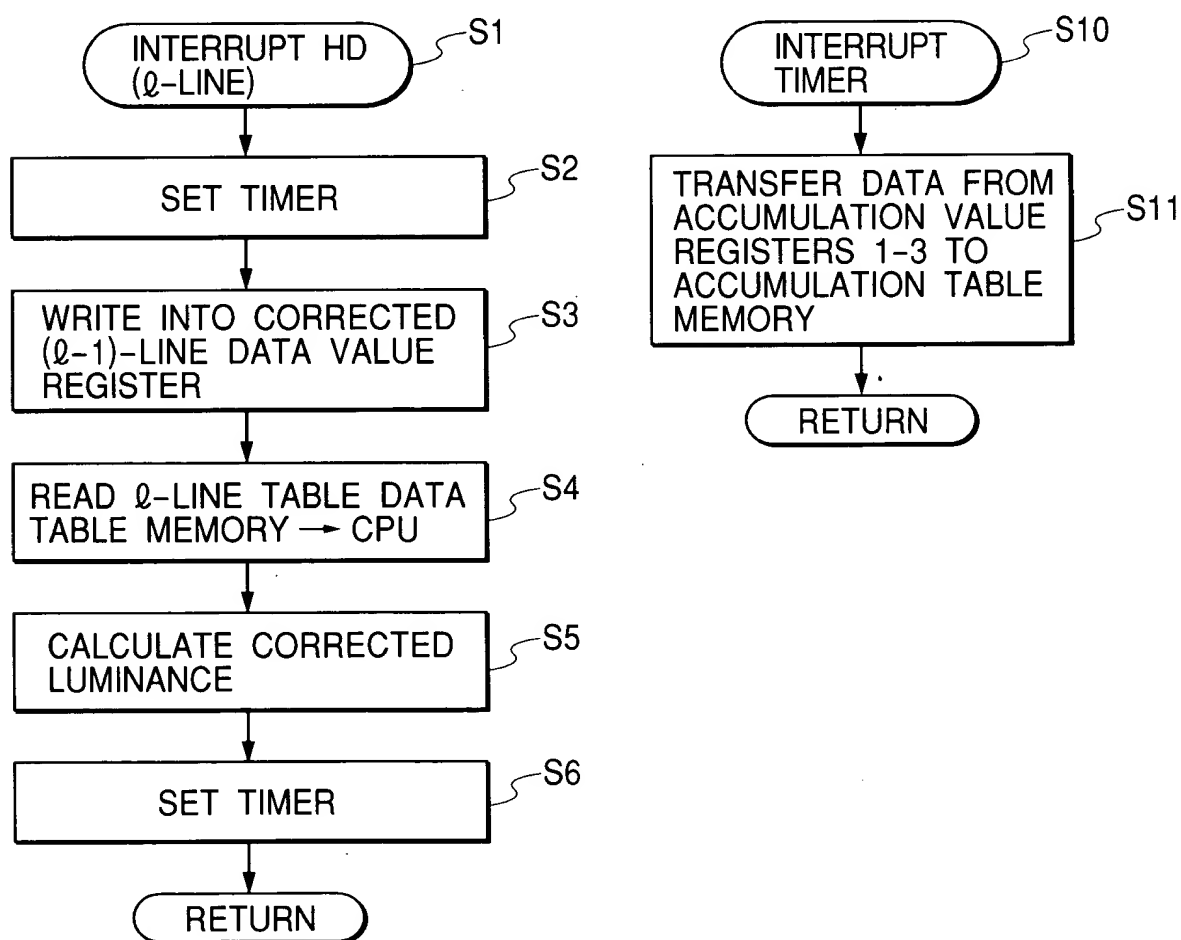


FIG. 10

FIG. 10

	DATA'S GREATER THAN Vref 1	DATA'S GREATER THAN Vref 2	DATA'S GREATER THAN Vref 3
BLOCK I	NA 1	NA 2	NA 3
BLOCK II	NB 1	NB 2	NB 3
BLOCK III	NC 1	NC 2	NC 3
BLOCK IV	ND 1	ND 2	ND 3

↓ PULSE 1 ↓ PULSE 2 ↓ PULSE 3

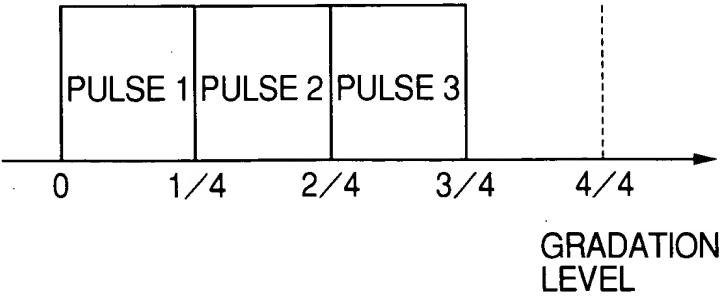
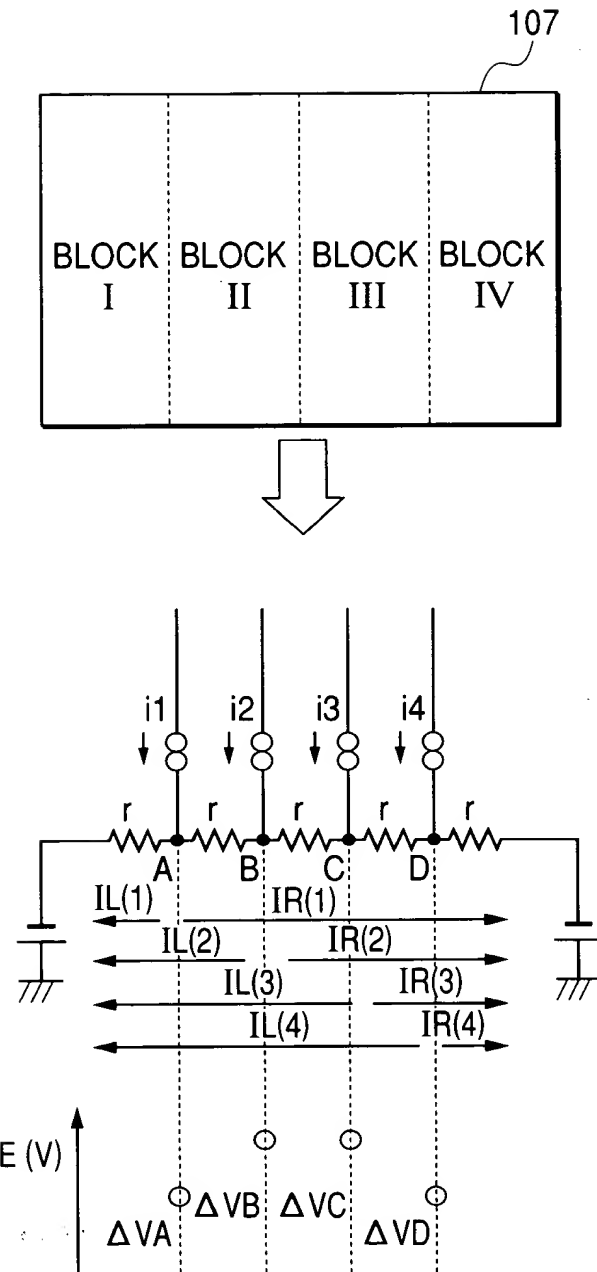


FIG. 11



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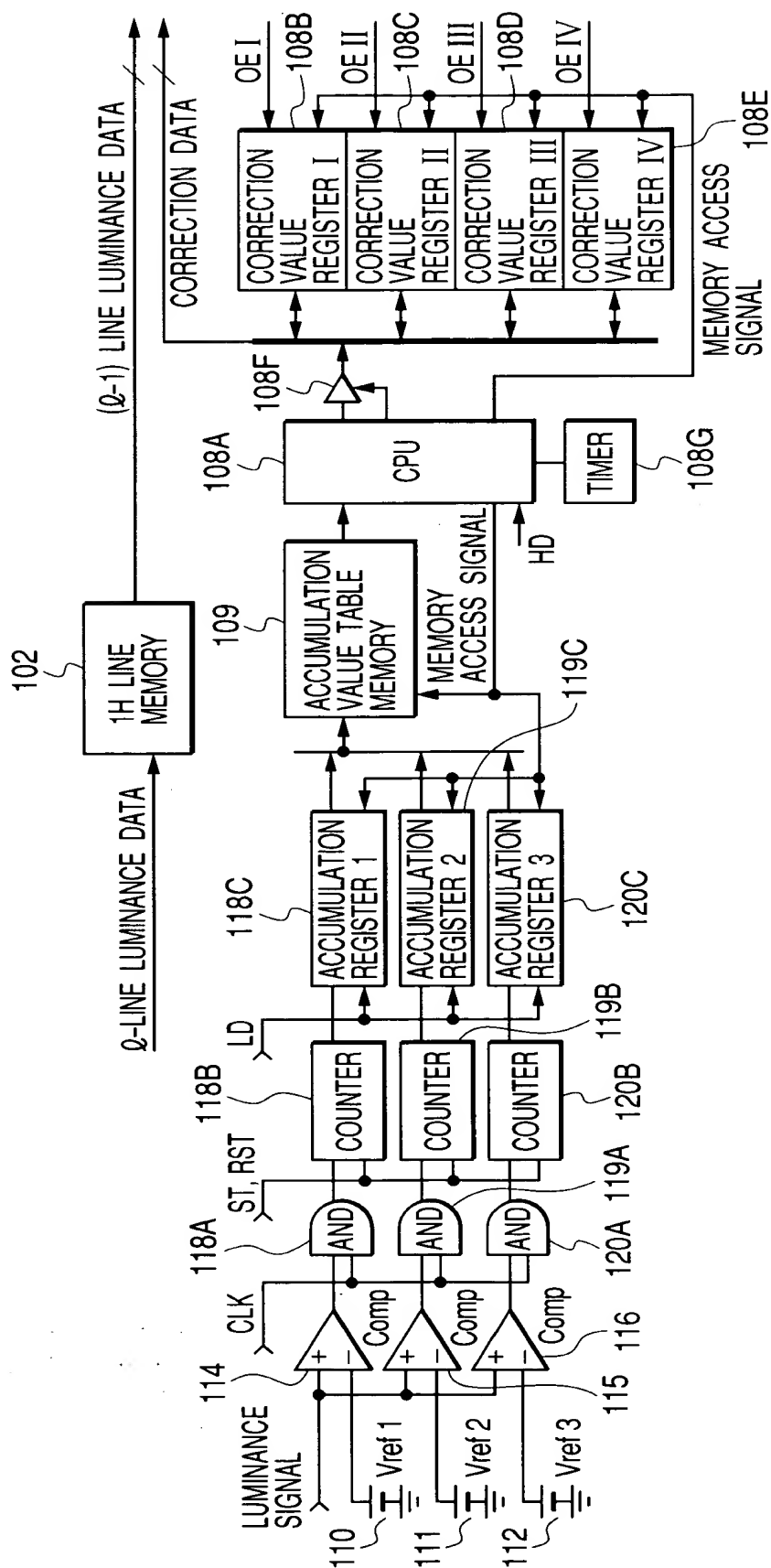


FIG. 13

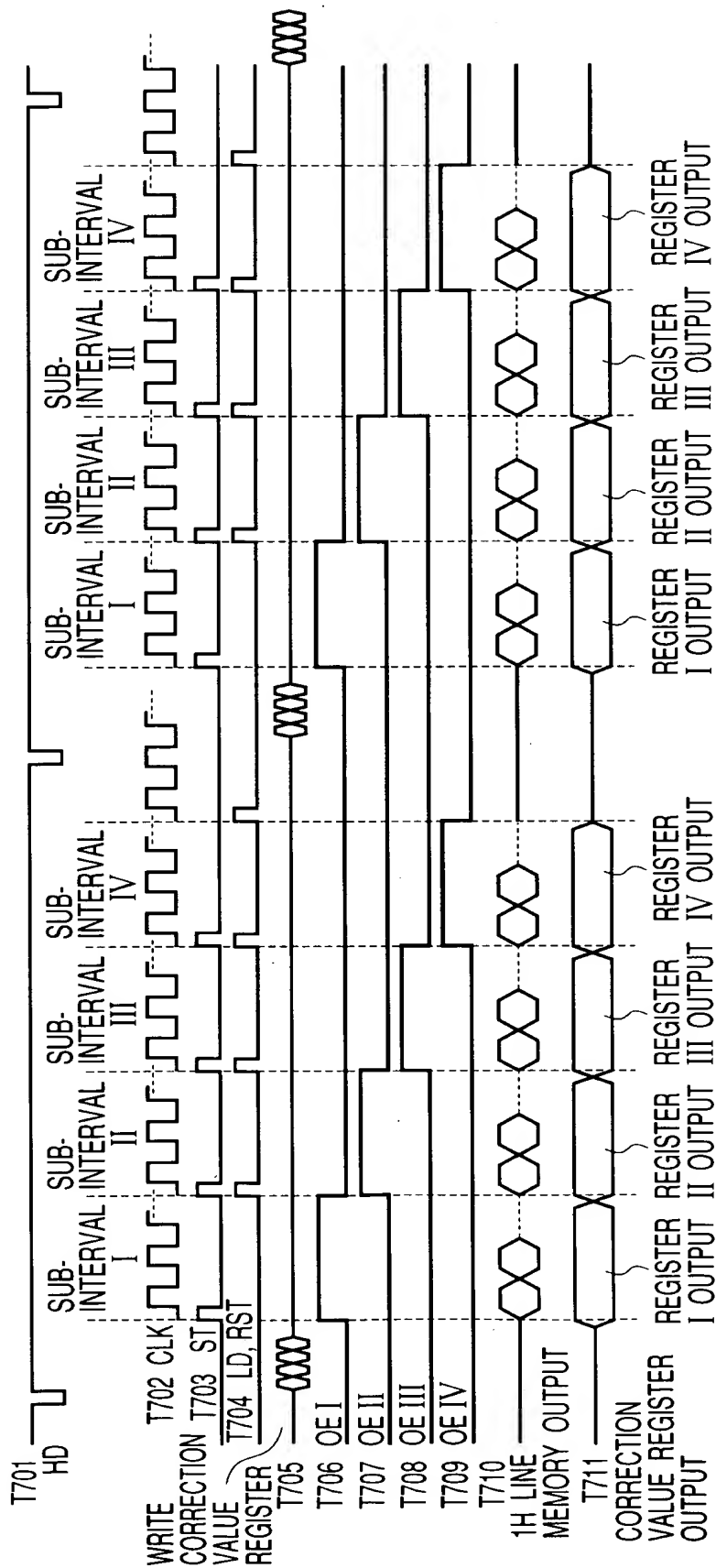
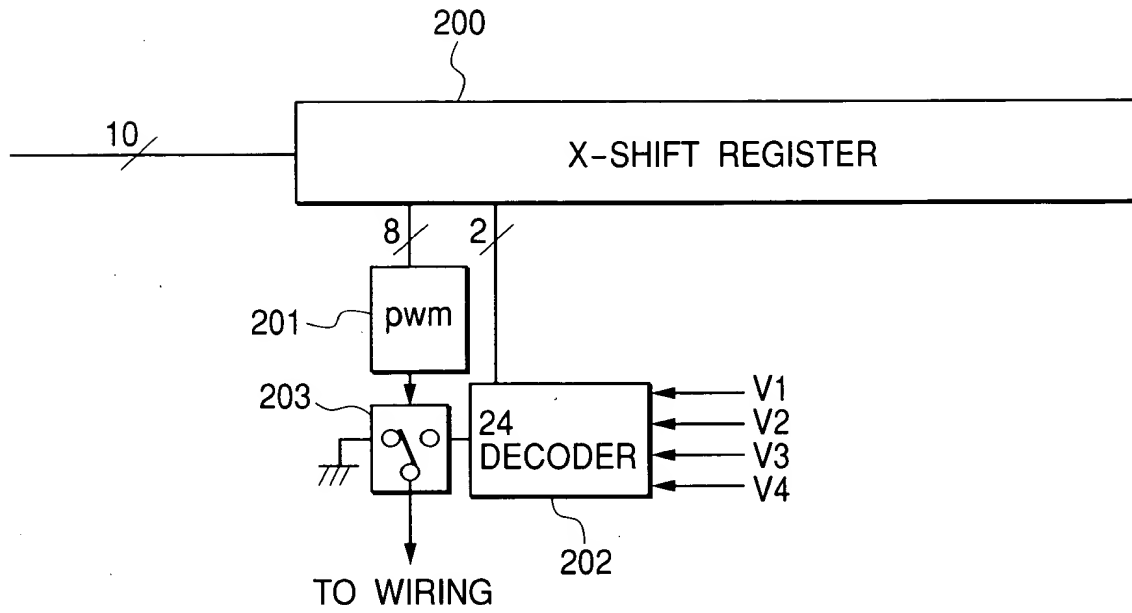


FIG. 14*FIG. 15*

CORRECTION DATA	OUTPUT
00B	V1
01B	V2
10B	V3
11B	V4

FIG. 16

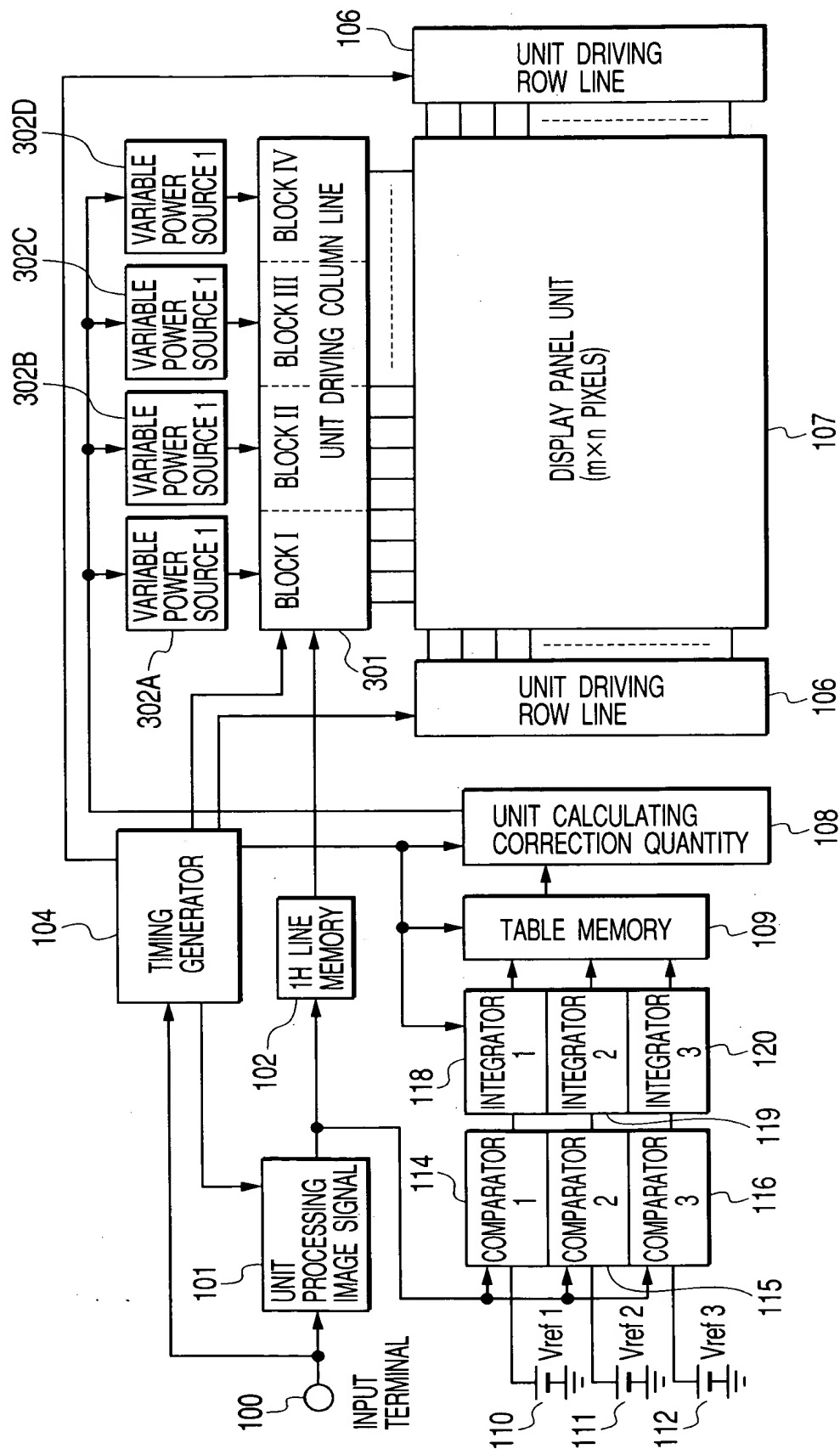


FIG. 17

